

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
13 January 2005 (13.01.2005)

PCT

(10) International Publication Number  
**WO 2005/002324 A2**

- (51) International Patent Classification<sup>7</sup>: **A01H**
- (21) International Application Number: PCT/IB2004/002491
- (22) International Filing Date: 5 July 2004 (05.07.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
03291677.7 4 July 2003 (04.07.2003) EP  
03293057.0 8 December 2003 (08.12.2003) EP
- (71) Applicant (for all designated States except US): **INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE** [FR/FR]; 145, rue de l'Université, F-75007 Paris (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **PRIMAR-BRISSET, Catherine** [FR/FR]; 119, rue de Paris, F-78470 Saint Remy les Chevreuse (FR). **DELOURME, Régine** [FR/FR]; 36, rue de Rennes, F-35590 L'Hermittage (FR). **HORVAIS, Raymonde** [FR/FR]; La Poterie, Dingt, F-35440 Montreuil-sur-Ille (FR). **BUDAR, Françoise** [FR/FR]; 52, rue de Gometz, F-91470 Les Molières (FR). **PELLETIER, Georges** [FR/FR]; 28, avenue de L'Espérance, F-91440 Bures sur Yvette (FR). **RENARD,**
- (74) Agents: **MARTIN, Jean-Jacques** et al.; Cabinet Regimbeau, 20, rue de Chazelles, F-75847 Paris Cedex 17 (FR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PRODUCING DOUBLE LOW RESTORER LINES OF BRASSICA NAPUS HAVING A GOOD AGRONOMIC VALUE

(57) Abstract: A method of producing double low restorer line of Brassica napus for Ogura cytoplasmic male sterility (cms) presenting radish introgression carrying the Rfo restorer gene deleted of the radish Pgi-2 allele and recombined with the Pgi-2 gene from Brassica oleracea, and having a good agronomic value characterized by female fertility, a good transmission rate of Rfo and a high vegetative vigour. A method of forming Brassica napus hybrid seeds and progeny thereof. The seeds of Brassica napus and use of the combined markers PGIol, PGIunt, PGIint, BolJon and CP418 for characterising.

WO 2005/002324 A2